

ABSTRACT

One aspect of the invention relates to a power control system for a floor-maintenance tool. The power control system measures the overall power exerted by the tool motor, including the current through the tool motor and the voltage level of the power source to the tool motor. The power control system then determines the difference between the measured motor power and a selected desired operating power, and, if this difference is greater than a threshold error, automatically adjusts the force exerted upon the tool motor to either increase or decrease the tool motor power to reach the desired operating power.